

DERWENT- 2001-319447

ACC-NO:

DERWENT- 200140

WEEK:

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**TITLE:** Fabrication of grill panels for safety guards using an electric spot welding technique providing improved weld penetration for improved strength

**INVENTOR:** HERBERTSSON, R

**PATENT-ASSIGNEE:** GUNNEBO TROAX AB [GUNNN]

**PRIORITY-DATA:** 1999FR-0013017 (October 19, 1999)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>FR 2799671 A1</u>	April 20, 2001	N/A	012	B21F 027/10
SE 200003751 A	April 20, 2001	N/A	000	E04H 017/14

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
FR 2799671A1	N/A	1999FR-0013017	October 19, 1999
SE 200003751A	N/A	2000SE-0003751	October 17, 2000

**INT-CL (IPC):** B21F027/10, B23K011/11 , B23K101:22 , E04H017/14

**ABSTRACTED-PUB-NO:** FR 2799671A

**BASIC-ABSTRACT:**

NOVELTY - A grill panel is produced, made up of metal sections (2) of rectangular section and metal wires (3) extending transversely to these sections. The wires are electric spot welded to the sections by placing a first electrode (8) on the wires and a second electrode (9)

on the face (7) of the sections opposite the wires and by applying an electric voltage between these two electrodes.

DETAILED DESCRIPTION - One electrode forms on the face (7) of the sections (2) destined to come into contact with the wires (3) at least one projecting flange (5) and in that, during the electric welding, one applies a pressure between the two electrodes (8, 9) so that, under the effect of the heat generated during welding, the projecting flanges on the sections penetrate partially into the metal of the wires.

An INDEPENDENT CLAIM is also included for the grill panels produced.

USE - For fabrication of grill panels by electric spot welding, notably for the production of safety guards for the protection of personnel, notably for dangerous machines.

ADVANTAGE - Allows fabrication of grill panels with secure and reliable welds under economic conditions. The grill panels produced have an improved strength due to the penetration of the flanges on the sections into the metal of the wires.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross-section of the grill panel.

metal section 2

metal wire 3

projecting flange formed on metal section 5

face of metal section 7

first electrode 8

second electrode 9

**CHOSEN-** Dwg.2/4  
**DRAWING:**

**TITLE-** FABRICATE GRILL PANEL SAFETY GUARD ELECTRIC SPOT WELD  
**TERMS:** TECHNIQUE IMPROVE WELD PENETRATE IMPROVE STRENGTH

**DERWENT-CLASS:** M23 P52 P55 X24

**CPI-CODES:** M23-D02A3;

**EPI-CODES:** X24-C;

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SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-098472

Non-CPI Secondary Accession Numbers: N2001-229631